

Is a copper statue turning green a physical or chemical change?



Mode IA

Tout

Vidéos courtes

Images

Vidéos

Shopping

Web

Plus ▾

Outils ▾

◆ Aperçu généré par IA



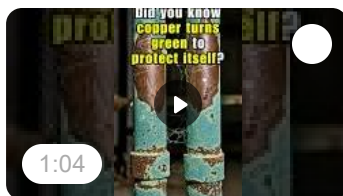
Tout afficher

A copper statue turning green is a **chemical change**. The copper reacts with oxygen, water, and carbon dioxide in the air to create a new substance called a patina (or copper carbonate). This new layer changes the chemical makeup of the surface. ⓘ Expier +1

The Science Behind the Green Color

- **Oxidation:** Air and moisture react with the copper metal to form copper oxide.
- **New Compounds:** Over time, moisture and carbon dioxide react with the oxide layer to form green copper carbonate.
- **Protection:** This green layer protects the metal underneath from further damage. Co ThoughtCo +1

Watch this short video to see a visual breakdown of the chemical process behind copper's color change:



Did You Know Copper Turns Green to Protect Itself?

7,8 k vues · il y a 2 mois

YouTube · History of Simple Things



Would you like to know more about how scientists clean or protect copper monuments, or do you have another chemical reaction you are curious about?

 4 sites

A copper statue turning green compost rotting a chemical or ...

9 oct. 2023 — The change in color of a copper statue turning green and the rotting of compost are both examples of chemical changes. Copper Stat...

 Brainly

Physical vs. Chemical Change — Definition & Examples - Expil

Overtime, the oxygen (O₂) in the air interacted with the statue's copper causing a new chemical to form on the surface, copper oxi...

 Expil

Why Is the Statue of Liberty Green? - ThoughtCo

7 sept. 2024 — The unique green color results from different chemical reactions between copper and substances in the air. Painting the statue was...

 ThoughtCo

Tout afficher



Posez une question



Metal Supermarkets

<https://www.metalsupermarkets.com> > ...

Why Does Copper Turn Green?

· Traduire cette page



16 mai 2023 — **Copper turns green due to oxidation**, this is commonly referred to as a 'patina. It can sometimes take several years for the process to occur, as ...

Termes manquants : ~~physical~~ | Afficher les résultats avec : **physical**



Australian Academy of Science

<https://curious.science.org.au> > w...

Why does copper turn green? - Curious

· Traduire cette page



27 juin 2022 — **Copper** forms a patina when exposed to oxygen and weathering over time. You will see this **change** in colour on old roofing, **copper statues** and — ...

Termes manquants : [physical](#) | Afficher les résultats avec : [physical](#)



Wikipedia

<https://en.wikipedia.org/wiki/Patina>

Patina

· [Traduire cette page](#) ·

The **Statue** of Liberty gets its famous **green** color from the natural patina formed on its **copper** surface. The **green** patina that forms naturally on **copper** and ...



Copper and Green

<https://copperandgreen.com/news/why-does-copper-turn-green/>

Why Does Copper Turn Green?

· [Traduire cette page](#) ·

15 nov. 2023 — **Copper turns green due to a natural process called oxidation.** When copper is exposed to the elements, it results in the formation of a green ...



Expil

<https://www.expil.com/physical-chemical-change/>

Physical vs. Chemical Change — Definition & Examples

· [Traduire cette page](#) ·

This is a **chemical change** because the chemical composition changed. If the color change was due to coating the **statue** in paint, this would be a **physical** change.



National Park Service (.gov)

<https://www.nps.gov/classrooms/preserving-a-symbol-teacher-lesson-plan/>

Preserving a Symbol - Teachers (U.S. National Park Service)

· [Traduire cette page](#) ·

9 déc. 2017 — The **Statue** of Liberty is made entirely of **copper** and is now **green**-colored due to the effects of oxidation. 7. Inform students that because color ...



ThoughtCo

<https://www.thoughtco.com/why-is-the-statue-of-liberty-green-2312318/>

Why Is the Statue of Liberty Green?

· [Traduire cette page](#) ·

7 sept. 2024 — The unique green color results from **different chemical reactions between copper and substances in the air**. Painting the statue was ...

Plus de questions à poser

Is copper turning green chemical or physical?



Is a copper statue turning green a physical change?



Is copper a physical or chemical change? 

Why do copper statues turn green? 

Vidéos :


8:51

Why Do Some Metals Turn Green Over Time?

YouTube · History of Simple Things 
31 mars 2025

6 moments clés dans cette vidéo 


8:08

The Green Layer That Makes Copper Last for Centuries

YouTube · History of Simple Things 
31 mai 2026

8 moments clés dans cette vidéo 


1:04

Did You Know Copper Turns Green to Protect Itself?

YouTube · History of Simple Things 
30 mai 2026

Voir plus 



Brainly

<https://brainly.com/question>

A copper statue turning green compost rotting a chemical ...

9 oct. 2023 — The change in color of a copper statue turning green and the rotting of compost are **both examples of chemical changes**. Copper Statue Turning ...

[2 réponses](#) · Meilleure réponse: Final Answer: Both the changing color of a copper statue and rotting c...

Recherches connexes :

When copper turns green What is it called 

Is green copper toxic 

Copper turning green chemical
reaction 

**How long does it take for copper
to oxidize in Minecraft** 

Is a copper statue turning green
caused by heating 

Green copper **oxide** 

Copper **turns** green **On skin** 

Does copper **turn** green **in water** 

1 2 3 4 5 6 7 8 9 10

[Suivant](#)

Les résultats sont personnalisés - [Essayer sans personnalisation](#)

Canada **H2V, Montréal, QC** - [D'après votre adresse IP](#) - [Mettre à jour ma position](#)

[Aide](#)

[Envoyer des commentaires](#)

[Confidentialité](#)

[Conditions d'utilisation](#)